

## EAST Search History

| Ref # | Hits | Search Query   | DBs                                      | Default Operator | Plurals | Time Stamp       |
|-------|------|--|--|------------------|---------|------------------|
| S18   | 13   | S17 and (@ad<"20030702" or @rlad<"20030702")   | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 12:54 |
| S17   | 21   | S16 and ((alingan or (aluminum adj indium adj gallium adj nitride)) near (barrier))  | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 12:54 |
| S11   | 12   | S10 and (@ad<"20030702" or @rlad<"20030702")   | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 12:54 |
| S10   | 16   | S9 and ((alingan or (aluminum adj indium adj gallium adj nitride)) near (barrier))   | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:14 |
| S26   | 21   | S25 and ((alingan or (aluminum adj indium adj gallium adj nitride)) near (barrier))  | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:14 |
| S24   | 12   | S23 and (@ad<"20030702" or @rlad<"20030702")   | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:14 |
| S23   | 16   | S22 and ((alingan or (aluminum adj indium adj gallium adj nitride)) near (barrier))  | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:14 |
| S19   | 1    | S18 not S11  | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:14 |
| S27   | 13   | S26 and (@ad<"20030702" or @rlad<"20030702")   | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:15 |
| S28   | 15   | S20 not S27 not S24  | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:15 |
| S29   | 15   | S20 not (S27 or S24)   | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:15 |
| S30   | 5    | S29 and (@ad<"20030702" or @rlad<"20030702")   | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:19 |
| S31   | 10   | S29 not S30  | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:26 |
| S32   | 12   | ((buffer or buffering) adj2 between adj (clad or cladding))  | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:27 |
| S33   | 12   | ((buffer or buffering) adj2 between adj (clad or cladding))  | US-PGPUB; USPAT                          | OR               | ON      | 2006/11/30 15:28 |
| S20   | 23   | ( ((alingan or (aluminum adj indium adj gallium adj nitride)) near3 (barrier)) same ((ingan or (indium adj gallium adj nitride)) near3 (active or quantum or mqw or "well")) ) | US-PGPUB; USPAT                          | OR               | ON      | 2006/12/05 17:42 |
| S43   | 11   | S42 and ( (al or aluminum) near (content or percent or percentage or amount or "%") )  | US-PGPUB; USPAT                          | OR               | ON      | 2006/12/05 17:43 |
| S46   | 11   | S44 and ( (al or aluminum) near2 (content or percent or percentage or amount or "%") )   | US-PGPUB; USPAT                          | OR               | ON      | 2006/12/05 17:52 |
| S44   | 35   | ( ((alingan or (aluminum adj indium adj gallium adj nitride)) near3 (barrier))and ((ingan or (indium adj gallium adj nitride)) near3 (active or quantum or mqw or "well")) )   | US-PGPUB; USPAT                          | OR               | ON      | 2006/12/05 17:52 |
| S50   | 0    | S48 and ( (al or aluminum) with (content or percent or percentage or amount or "%") )  | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2006/12/05 17:53 |

## EAST Search History

|     |    |  |  |    |    |                  |
|-----|----|--|--|----|----|------------------|
| S49 | 0  | S48 and ( (al or aluminum) near3 (content or percent or percentage or amount or "%") )   | USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/12/05 17:53 |
| S52 | 5  | S51 not S47  | US-PGPUB; USPAT                          | OR | ON | 2006/12/05 17:55 |
| S51 | 16 | S44 and ( (al or aluminum) with (content or percent or percentage or amount or "%") )  | US-PGPUB; USPAT                          | OR | ON | 2006/12/05 17:55 |
| S47 | 11 | S44 and ( (al or aluminum) near3 (content or percent or percentage or amount or "%") )   | US-PGPUB; USPAT                          | OR | ON | 2006/12/05 17:55 |
| S48 | 6  | ( ((alingan or (aluminum adj indium adj gallium adj nitride)) near3 (barrier))and ((ingan or (indium adj gallium adj nitride)) near3 (active or quantum or mqw or "well")) ) | EPO; JPO; DERWENT; IBM_TDB               | OR | ON | 2006/12/05 18:10 |
| S45 | 11 | S44 and ( (al or aluminum) near (content or percent or percentage or amount or "%") )  | US-PGPUB; USPAT                          | OR | ON | 2006/12/05 18:16 |
| S42 | 35 | ( ((alingan or (aluminum adj indium adj gallium adj nitride)) near3 (barrier))and ((ingan or (indium adj gallium adj nitride)) near3 (active or quantum or mqw or "well")) ) | US-PGPUB; USPAT                          | OR | ON | 2006/12/05 18:20 |